

EXHIBIT B

Human preproenkephalin A gene, 5' flanking region.

ACCESSION X00187

1 cccctcccg gtggagaaga ggttccaagc cccggcgctcc cgggtaggggt gtccctcatc
61 cctccctccc caccacactc ctggcgcgct gacattacac ccgccccggc accccctct
121 cactgatcca acacccccgg acacctgga cagcgctctc aaggcagtag gtcttcgact
181 tgggagcccc ggggagctgg ttaaacacgg atcctctccc acagtggctg aaaagcgcg
241 agtcccggaa cctgagggtt tacctgcttc taegcttggc caagggtctc taactggaaa
301 ggtgaaaatt ctgtcctgag attttaagat tcccagaaac tttcaatcgt tcagttcctg
361 taaccattaa ttgagcgct aaactgcgca ccttgacgct gttagatgct gcagtaagga
421 actcggagtc aagtgtgggg gacagggttg tcaataaatg acgacattcc ggacggctgt
481 gcttggtgcc cacggggacc cgcgaggggg ccagggagg aggcgggaaa ggggcaggtt
541 caccggcccc ctgggtctcc agcacattcc agaagtctaa gccagtcctat ctatccttc
601 aaaegcccc acctcgcttc cctccctgga gcccgcatcc caccggtgcaa tttcagtgac
661 tttatcgga gaaacttgat cctatctcac tctcccaaa cttcctaact gccttgggtt
721 tgtcacctgg ccgtgtgggg agccaccgag cggccctgt ggccccacc cgagctcggc
781 ggggggagcg gcgcgcgggt gctgggggac cgaccctcc cgcgaaggcg tcggcgcg
841 gctggcgtag ggctgcgtc agctgcagcc cggcggcgat tggggcgcg gcgcctcctt
901 cggtttgggg ctaattataa agtggctcca gcagccgtta agccccggga cggcgaggca
961 ggcgctcaga gcccgcagc ctggcccgtg accccgcaga gacgctgagg acc

//

ppENK

Unmethylated

1 ttttttttt**tg** gtggagaaga ggtttttaagt ttt**gggtg**ttt **tg**ggtagggg gttttttatt
61 tttttttttt tattatattt tt**gggtg**ttt gatattatat t**tg**tttt**tg**gt attttttttt
121 tattgattta atattttt**tg**g atatttttgga tag**tg**ttttt aaggtagtag gtttt**tg**att
181 tgggagtttt **g**gggagttgg ttaaata**tg**g attttttttt atagtgggtg aaaagt**tg**tg
241 agtttt**tg**gaa tttgaggggtt tatttgtttt tat**tg**tttggt taagggtttt taattggaaa
301 ggtgaaaatt ttgttttgag attttaagat ttttagaaat ttttaatt**tg**t ttagtttttg
361 taattattaa ttgagt**tg**ttt aaatt**tg**tta ttttgat**tg**tt gtagatggt gtagtaagga
421 attt**tg**gagtt aagtgtgggg gatagggtgg ttaataaatg at**g**atatttt **g**gat**tg**gttgt
481 gtttggtggt tat**tg**gggatt **tg**tgaggggg tttagggagg aggt**tg**ggaaa ggggtagggt
541 tatt**tg**gttt**tg** ttgggttttt agtatatttt agaagtttaa gtagtttat ttattttttt
601 aaat**tg**ttttt atttt**tg**tttt tttttttgga gttt**tg**tattt tat**tg**gtgtaa ttttagtgat
661 tttat**tg**tgga gaaatttgat tttattttat tttttttaaa ttttttaatt gttttggggt
721 tgttatttgg ttgtgtgggg agttat**tg**ag **tg**ttttttgt ggtttttatt **tg**agtt**tg**gt
781 ggggggag**tg** gtgtgtgggt gttgggggat **tg**attttttt **tg**tgaagg**tg** ttgg**tg**tggg
841 gttggt**tg**tag ggttt**tg**ttt agttgtagtt **tg**tt**tg**gtgat tgggg**tg**tg**tg** **gt**gttttttt
901 **tg**gtttgggg ttaattataa agtggtttta gtagtt**tg**tta agtttt**tg**gga **tg**gtgaggta
961 ggt**tg**tttaga gtttt**tg**tagt ttggttt**tg**tg atttt**tg**taga gat**tg**ttgagg att

Methylated

1 ttttttttt**cg** gtggagaaga ggtttttaagt tt**cg**gc**cg**ttt **cg**ggtagggg gttttttatt
61 tttttttttt tattatattt ttgg**cg**cg**cg**tt gatattatat t**cg**ttt**cg**gt attttttttt
121 tattgattta atattttt**cg**g atatttttgga tag**cg**ttttt aaggtagtag gtttt**cg**att

181 tgggagtttc ggggagttgg ttaaatacgg attttttttt atagtggttg aaaagcgcgt
241 agtttcggaa tttgagggtt tatttgtttt taegtgttgg taagggtttt taattggaaa
301 ggtgaaaatt ttgttttgag attttaagat ttttagaaat ttttaatcgt ttagtttttg
361 taattattaa ttgagcgttt aaattgcgta ttttgacgtt gttagatggt gtagtaagga
421 attcggagtt aagtgtgggg gataggttgg ttaataaatg acgatatttc ggacggttgt
481 gtttggtggt taegggtt cgcgaggggg tttaggagg aggcgggaaa ggggtaggtt
541 tatcggttcg ttgggttttt agtatatttt agaagttaa gttagtttat ttattttttt
601 aaacgttttt atttcgtttt tttttttgga gttcgtattt tacgggtgtaa ttttagtgat
661 tttatgcgga gaaatttgat tttattttat tttttttaaa ttttttaatt gttttgggtt
721 tgttatttgg tcgtgtgggg agttatcgag cgttttttgt ggtttttatt cgagttcggg
781 ggggggagcg gcgcgcgggt gttgggggat cgattttttt cgcgaaggcg tcggcgcggg
841 gttggcgtag ggtttgcgtt agttgtagtt cgtcggcgat tggggcgcgc gcgttttttt
901 cggttttgggg ttaattataa agtggtttta gtagtcgtta agtttcggga cggcgaggta
961 ggcgtttaga gtttcgtagt ttggttcgtg atttcgtaga gacgttgagg att